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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/499,720	02/08/2000	Dale C. Morris	10991915-1	1658	
22879	7590 04/08/2004		EXAM	EXAMINER	
HEWLETT PACKARD COMPANY			INOA, MIDYS		
	400, 3404 E. HARMONY JAL PROPERTY ADMIN		ART UNIT	PAPER NUMBER	
	NS, CO 80527-2400		2188	.4	
			DATE MAILED: 04/08/2004	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicatio .	Applicant(s)			
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Office Action Summary		09/499,720	MORRIS ET AL.			
	Office Action Summary	Examiner	Art Unit			
	The SEAU DIO DATE - EAL:	Midys Inoa	2188			
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠	Responsive to communication(s) filed on 19 February 2002.					
2a) <u></u> □	This action is FINAL . 2b)⊠ This	s action is non-final.				
3)	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5) <u></u> 6)⊠						
Applicat	ion Papers					
9)[The specification is objected to by the Examine	er.				
10)⊠	10)⊠ The drawing(s) filed on <u>02/08/2000</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11)[Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority ι	ınder 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachmen	t(s)					
	e of References Cited (PTO-892)	4) Interview Summary				
3) 因 Inforr	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date <u>2&3</u> .	Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statements (IDS) submitted on November 21st, 2000 and February 19th, 2003 have been considered by the examiner.

Drawings

2. The drawings filed on February 8th, 2000 have been accepted by the examiner.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1-24 are rejected under 35 U.S.C. 102(b) as being anticipated by Mahon et al. (4,809,160).

Regarding Claims 1 and 6, Mahon et al. discloses a method of promoting a current privilege level wherein the current privilege level controls application instruction execution in the system by controlling accessibility to the system resources (Column 1, line 55 – Column 2, line 45), the method comprising: performing a privilege level promotion instruction by the operating system, the privilege promotion instruction being stored in a first page of memory not writeable by application instructions at a first privilege level ("store access rights of calling routine in T register"), the privilege promotion instruction including: reading a stored previous privilege level state ("read access rights of calling routine"); comparing the read previous privilege level state to the current privilege level ("Compare", "Access = OK?"); and if the

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previous privilege level state is equal to or less privileged than the current privilege level, promoting the current privilege level to a second privilege level which is higher than the first privilege level ("raise access rights to access rights of gateway", see Figure 2).

Regarding Claims 12, 17 and 23 Mahon et al. discloses a computer system comprising a processor (Figure 1, Instruction Unit 20) having current privilege level which controls accessibility to the system resources (Column 1, line 55 – Column 2, line 45) and having a previous privilege level state ("access rights of page containing gateway", Figure 2); a memory (Figure 1, Target Register File 80) having a plurality of memory pages including a first memory page storing a privilege promotion instruction ("Target Register 70") and not writeable by application instructions at a first privilege level ("store access rights of calling routine in T register"); and performing the privilege level promotion instruction as follows: reading a stored previous privilege level state ("read access rights of calling routine"); comparing the read previous privilege level state to the current privilege level ("Compare", "Access = OK?"); and if the previous privilege level state is equal to or less privileged than the current privilege level, promoting the current privilege level to a second privilege level which is higher than the first privilege level ("raise access rights to access rights of gateway", see Figure 2).

Regarding Claims 2, 8, 13, and 19, Mahon et al discloses the method of promoting a current privilege level wherein the step of performing the privilege promotion instruction further includes: if the previous privilege level state is more privileged then the current privilege level ("Access = No"), taking an illegal operation fault ("Trap Gateway", see Figure 2).

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Regarding Claims 3, 9, 14, and 20, Mahon et al discloses the method of promoting a current privilege level wherein the system resources include system registers (Figure 1, Target Register File 80 and Target Register 70).

Regarding Claims 4, 10, 15, and 21, Mahon et al discloses the method of promoting a current privilege level wherein the system resources include system instructions ("calling routine", Figure 2).

Regarding Claims 5, 11, 16, and 22 Mahon et al discloses the method of promoting a current privilege level wherein the system resources include memory pages (Figure 1, Physical Memory 40).

Regarding Claim 7, 18, and 24 Mahon et al discloses the method of promoting a current privilege level further comprising: performing a return instruction including: transferring instruction control flow to the stored return address to the first page of memory ("execute service routine", Figure 2); and demoting the current privilege level to the stored previous privilege level ("Return access rights of service routine per contents of the T register", Figure 2).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Midys Inoa whose telephone number is (703) 305-7850. The examiner can normally be reached on M-F 7:00am - 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mano Padmanabhan can be reached on (703) 306-2903. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Midys Irioa
Examiner
Art Unit 2188

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